

coc# 141

11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244 East 11115 Montgomery, Suite B, Spokane, WA 99206-4776

9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711

(425) 420-9200 (509) 924-9200

F^X 420-9210

(541) 383-9310 FAX 382-7588

924-9290 (503) 906-9200 FAX 906-9210

# **CHAIN OF CUSTODY REPORT**

Work Order #: M107010

CLIENT: BRISTOC	magnaris.	-				DICE TO			1						TURN			EST in Busine	ess Ďa	ys*
REPORT TO: AME	CRANAWETTE	FR	_		BR	15	101	-		The same of						Organ	nic & Inorg	anic Analyses		
ADDRESS: AMCH T															10 7		4	3 2	1	< 1
PHONE: 907-770-PROJECT NAME: AM	0974 FAX: 7	70.	095	15	PO N	JUMBI	FR 2	100	30		_				STD.		um Hydroc	arbon Analyses  2 1	< 1	
PROJECT NAME: A	HITKA				1.0.1			TED AN	-	S					ST	D.	-	ease Specify		
PROJECT NUMBER: 2	90	8-			,											ОТН		ase specify		
SAMPLED BY:		15	0												*Turnare	ound Requests	less than sta	ndard may incur Ri	ısh Char	ges.
CLIENT SAMPLE	SAMPLING	15X	3						1						MATRIX	# OF			]	NCA WO
IDENTIFICATION	DATE/TIME	2											y		(W, S, O)	CONT.	C	OMMENTS		ID
1 01AMA 406SC	7/3/01 1350	1	0						7						5	2				
2. 01 AM A 407 SL	7/3/01 1355	_	~								.40			- Marie - Mari	SI	2				
3. 01 AMA4085 L	7/3/01 /400	1													5/	2				
4.								. *							<i>.</i>					
5 /																				
6.																				
7.						, ,														
8.								1				-								
9.														1						
10.																			$\top$	
11.												1								
12.																			,	
13.																				
14.				gr														-		
15.																			, i	
RELINQUISHED BY: PRINT NAME:	U A FIRM: B	RIC	ital		DATE: TIME:	,	101	1	IVED BY	N	Ly 6	1.1		//	FIRM:	la ~	1		ATE:	7/3
RELINQUISHED BY:	O THOM.	18/10	10	- Constant	DATE:		30/-		NAME:	······································		M	en 6	~~!	FIRM:	IVC	15		IME: / - ATE:	300
PRINT NAME:	FIRM:		<u> </u>	<u> </u>	TIME:				NAME:	ř +					FIRM:				IME:	
ADDITIONAL REMARKS:	A . T	,																ТЕМР:		
COC REV 3/99	AGT UNKE	26 Lu	LAT	12/1															PAGE	OF.



425.420.9200 fax 425.420.9210

Spokane East 11115 Montgomery, Suite B, Spokane, WA 99206-4776

509.924.9200 fax 509.924.9290

**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132 503.906.9200 fax 503.906.9210

**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 541.383.9310 fax 541.382.7588

7 December, 2001

Anne Kranawetter Bristol Environmental & Engineering 2000 W International Airport C#1 Anchorage, AK 99502-1116

RE: Amchitka

Enclosed are the results of analyses for samples received by the laboratory on 07/03/01 15:02. If you have any questions concerning this report, please feel free to contact me.

This report was recreated from a previously issued final report in order to provide an electronic copy. The final report used for these electronic copies may have been previously issued as an amended report due to client requested changes to sample names, etc. No data has changed since submission of the previously issued final, or amended, report.

Sincerely,

Stephen Wilson

**Environmental Group Leader** 

112

Work Orders included in this report:

M107010



Anchorage, AK 99502-1116

Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-9223

425.420.9200 fax 425.420.9210

**Spokane** East 11115 Montgomery, Suite B, Spokane, WA 99206-4776

509.924.9200 fax 509.924.9290

 Portland
 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132

 503.906.9200
 fax 503.906.9210

 Bend
 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711

541.383.9310 fax 541.382.7588

Bristol Environmental & Engineering Project: Amchitka 2000 W International Airport C#1 Project Number: 21090

**Reported:** 07/04/01 18:33

Project Manager: Anne Kranawetter

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
01AMA406SL	M107010-01	Soil	07/03/01 13:50	07/03/01 15:02
01AMA407SL	M107010-02	Soil	07/03/01 13:55	07/03/01 15:02
01AMA408SL	M107010-03	Soil	07/03/01 14:00	07/03/01 15:02

COC #141

North Creek Analytical - Mobile Lab



425.420.9200 fax 425.420.9210

Spokane East 11115 Montgomery, Suite B, Spokane, WA 99206-4776

509.924.9200 fax 509.924.9290

Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132 503.906.9200 fax 503.906.9210

Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 541.383.9310 fax 541.382.7588

Bristol Environmental & Engineering 2000 W International Airport C#1

Project: Amchitka Project Number: 21090

Reported:

Anchorage, AK 99502-1116

Project Manager: Anne Kranawetter

07/04/01 18:33

### Diesel Hydrocarbons (C10-C25) per AK102 North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMA406SL (M107010-01) Soil					Sampled: 07	/03/01 Rece	eived: 07/03/	01	
Diesel Range Organics	ND	150	mg/kg dry	1	AK 102	07/03/01	07/03/01	0107015	
Surr: 1-Chlorooctadecane Surr: Triacontane	82.8 % 85.2 %	50-150 50-150							
01AMA407SL (M107010-02) Soil					Sampled: 07	/03/01 Rece	eived: 07/03/	01	
Diesel Range Organics	ND	150	mg/kg dry	1	AK 102	07/03/01	07/03/01	0107015	
Surr: 1-Chlorooctadecane Surr: Triacontane	79.5 % 87.4 %	50-150 50-150							
01AMA408SL (M107010-03) Soil					Sampled: 07	/03/01 Rece	eived: 07/03/	01	
Diesel Range Organics	ND	150	mg/kg dry	1	AK 102	07/03/01	07/03/01	0107015	
Surr: 1-Chlorooctadecane Surr: Triacontane	58.0 % 54.5 %	50-150 50-150							

North Creek Analytical - Mobile Lab



Anchorage, AK 99502-1116

Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-9223

425.420.9200 fax 425.420.9210

Spokane East 11115 Montgomery, Suite B, Spokane, WA 99206-4776

509.924.9200 fax 509.924.9290

**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132 503.906.9200 fax 503.906.9210

**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 541.383.9310 fax 541.382.7588

Bristol Environmental & Engineering Project: Amchitka 2000 W International Airport C#1 Project Number: 21090

Project Manager: Anne Kranawetter

**Reported:** 07/04/01 18:33

### BTEX,MTBE and Naphthalene per EPA Method 8021B North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMA406SL (M107010-01) Soil					Sampled: 07/	/03/01 Rece	eived: 07/03/	01	
Benzene	ND	0.0319	mg/kg dry	50	!1B BTEX/MT	ΓΙ 07/04/01	07/04/01	0107019	
Toluene	ND	0.128	"	"	"	"	"	"	
Ethylbenzene	ND	0.128	"	"	"	"	"	"	
Xylenes (total)	ND	0.255	"	"	"	"	"	"	
Naphthalene	ND	1.28	"	"	"	"	"	"	
Surr: 4-BFB	80.2 %	50-150							
01AMA407SL (M107010-02) Soil					Sampled: 07/	/03/01 Rece	eived: 07/03/	01	
Benzene	ND	0.0339	mg/kg dry	50	!1B BTEX/MT	ΓΙ 07/04/01	07/04/01	0107019	
Toluene	ND	0.136	"	"	"	"	"	"	
Ethylbenzene	ND	0.136	"	"	"	"	"	"	
Xylenes (total)	ND	0.272	"	"	"	"	"	"	
Naphthalene	ND	1.36	"	"	"	"	"	"	
Surr: 4-BFB	78.7 %	50-150							
01AMA408SL (M107010-03) Soil					Sampled: 07/	/03/01 Rece	eived: 07/03/	01	
Benzene	ND	0.0489	mg/kg dry	50	!1B BTEX/MT	ΓΙ 07/04/01	07/04/01	0107019	
Toluene	ND	0.196	"	"	"	"	"	"	
Ethylbenzene	ND	0.196	"	"	"	"	"	"	
Xylenes (total)	ND	0.391	"	"	"	"	"	"	
Naphthalene	ND	1.96	"	"	"	"	"	"	
Surr: 4-BFB	73.8 %	50-150							

North Creek Analytical - Mobile Lab



425.420.9200 fax 425.420.9210

Spokane East 11115 Montgomery, Suite B, Spokane, WA 99206-4776

509.924.9200 fax 509.924.9290

Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132

503.906.9200 fax 503.906.9210 **Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 541.383.9310 fax 541.382.7588

Bristol Environmental & Engineering Project: Amchitka 2000 W International Airport C#1 Project Number: 21090

: 21090 **Reported:** 

Anchorage, AK 99502-1116 Project Manager: Anne Kranawetter

07/04/01 18:33

## Physical Parameters per APHA/ASTM/EPA Methods North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit Units	Dilution	Method Prepared Analyzed Batch Note
01AMA406SL (M107010-01) Soil				Sampled: 07/03/01 Received: 07/03/01
% Solids	85.7	0.0100 % by Weig	ht 1	Gravimetric 07/03/01 07/04/01 0107020
01AMA407SL (M107010-02) Soil				Sampled: 07/03/01 Received: 07/03/01
% Solids	88.1	0.0100 % by Weig	ht 1	Gravimetric 07/03/01 07/04/01 0107020
01AMA408SL (M107010-03) Soil				Sampled: 07/03/01 Received: 07/03/01
% Solids	91.7	0.0100 % by Weig	ht 1	Gravimetric 07/03/01 07/04/01 0107020

North Creek Analytical - Mobile Lab



%REC

50-150

50-150

425.420.9200 fax 425.420.9210

Spokane East 11115 Montgomery, Suite B, Spokane, WA 99206-4776

509.924.9200 fax 509.924.9290 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132

503.906.9200 fax 503.906.9210 **Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711

541.383.9310 fax 541.382.7588

97.0

89.8

Bristol Environmental & Engineering

2000 W International Airport C#1 Project Number: 21090

Reported:

Anchorage, AK 99502-1116

Surr: 1-Chlorooctadecane

Surr: Triacontane

Project Manager: Anne Kranawetter

Project: Amchitka

Portland

Spike

23.7

23.5

Source

07/04/01 18:33

RPD

#### Diesel Hydrocarbons (C10-C25) per AK102 - Quality Control

#### North Creek Analytical - Mobile Lab

Reporting

Analyte	Result	Limit Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 0107015 - 3545 ASE									
Blank (0107015-BLK1)			Prepare	ed & Analy	zed: 07/0	3/01			
Diesel Range Organics	ND	150 mg/kg wet							
Surr: 1-Chlorooctadecane	18.8	"	23.7		79.3	50-150			
Surr: Triacontane	20.1	"	23.5		85.5	50-150			
LCS (0107015-BS1)			Prepare	ed & Analy	zed: 07/0	3/01			
Diesel Range Organics	1400	150 mg/kg wet	1250		112	75-125			

LCS Dup (0107015-BSD1)	Prepared & Analyzed: 07/03/01

23.0

21.1

LCS Dup (0107015-BSD1)			Prepared &	Analyzed: 07/0	3/01			
Diesel Range Organics	1370	150 mg/kg wet	1250	110	75-125	2.17	20	
Surr: 1-Chlorooctadecane	18.9	"	23.7	79.7	50-150			
Surr: Triacontane	21.4	"	23.5	91.1	50-150			

Matrix Spike (0107015-MS1)	Source	e: M107004-01	Prepared	d & Analy	zed: 07/0	3/01
Diesel Range Organics	2050	150 mg/kg dry	1370	322	126	60-140
Surr: 1-Chlorooctadecane	26.1	"	25.9		101	50-150
Surr: Triacontane	23.1	"	25.7		89.9	50-150

North Creek Analytical - Mobile Lab



425.420.9200 fax 425.420.9210

Spokane East 11115 Montgomery, Suite B, Spokane, WA 99206-4776

509.924.9200 fax 509.924.9290

Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132 503.906.9200 fax 503.906.9210

Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 541.383.9310 fax 541.382.7588

103

50-150

Bristol Environmental & Engineering 2000 W International Airport C#1

Project: Amchitka Project Number: 21090

Reported: 07/04/01 18:33

Anchorage, AK 99502-1116

Project Manager: Anne Kranawetter

#### BTEX,MTBE and Naphthalene per EPA Method 8021B - Quality Control

### North Creek Analytical - Mobile Lab

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 0107019 - MeOH Extraction	Batch (	)107019 -	<b>MeOH</b>	Extraction
---------------------------------	---------	-----------	-------------	------------

Surr: 4-BFB

Batch 0107019 - MeOH Extraction	on				
Blank (0107019-BLK1)			Prepared &	Analyzed: 07/04/01	
Benzene	ND	0.0250 mg/kg we	et		
Toluene	ND	0.100 "			
Ethylbenzene	ND	0.100 "			
Xylenes (total)	ND	0.200 "			
Naphthalene	ND	1.00 "			
Surr: 4-BFB	2.30	"	2.50	92.0 50-150	
LCS (0107019-BS1)			Prepared &	Analyzed: 07/04/01	
Benzene	2.02	0.0250 mg/kg we	et 2.50	80.8 69-138	
Toluene	2.20	0.100 "	2.50	88.0 53-151	
Ethylbenzene	2.47	0.100 "	2.50	98.8 61-141	
Xylenes (total)	7.07	0.200 "	7.50	94.3 62-141	
Naphthalene	2.51	1.00 "	2.50	100 65-135	

2.50

North Creek Analytical - Mobile Lab

2.57



Reported:

425.420.9200 fax 425.420.9210

Spokane East 11115 Montgomery, Suite B, Spokane, WA 99206-4776

509.924.9200 fax 509.924.9290

Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132

503.906.9200 fax 503.906.9210 **Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 541.383.9310 fax 541.382.7588

Bristol Environmental & Engineering Project: Amchitka 2000 W International Airport C#1 Project Number: 21090

Anchorage, AK 99502-1116 Project Manager: Anne Kranawetter 07/04/01 18:33

#### **Notes and Definitions**

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis. MRLs are adjusted if %Solids are less than 50%.

wet Sample results reported on a wet weight basis (as received)

RPD Relative Percent Difference

North Creek Analytical - Mobile Lab

### **Items for Project Manager Review**

LabNumber	Analysis	Analyte	Exception
			Report recreated from:
			\\sisters\elmnt\Report\M107010 FINAL 07 04 01
			1833.mdb
			Default Report (not modified)